Visual Radio Solution

VJPro Console:

Watch your Radio now!

Studio

→ FM

→ TV

→ WEB

What does Visual Radio mean?

It means that your radio can be seen.
It means that Radio programs and shows will be aired both on Radio and TV at the same time.
It means being able to produce Radio programs with video, to deliver the signal to FM, TV and WEB.

Now your Radio goes to TV and you can even watch it!

Who are the targets?

The targets are both new and existing Radio Broadcasters that wish to extend their media coverage from FM to TV, with minimum investment.

TV is intended in its widest range:

SAT, DVB-T, DVB-C, WEB, IPTV, etc.
Broadcast quality (interlaced).
Any resolution: SD/HD/4K and more.

Scope of the Visual Radio Solution &

Customer benefits

Produce Radio and TV without bearing the costs and efforts required for traditional TV production.
Setup a system that seamlessly delivers content for Radio and TV broadcasting.

Add new media and became multiplatform
More Advertisement
Cross promotion
Run a TV station with the same technical staff and talent used in Radio
No need of TV expertise
One time minimum investment
Near zero cost for TV production.

Customer benefits

Radio can be seen on TV, at the same time?

Traditional Radio studios became a TV stage, just adding cameras and lights

Any radio content and program triggers its own related video and graphic content such as:

video clip, title and author for songs or camera and lower third for live talk shows station logo and program ID social network

Does the radio need to change its workflow or its equipment?

No, the radio keeps running as normally does, while Video/TV simply follows

What is seen on TV is defined by the Radio Director who establishes the style of the channels.

Radio rules the TV.

Customer benefits

What do I have to do every day for the TV?

Whenever a new audio is added to the radio archive/database then the related video or images must be simply added too.

The system provides semi-automated tools to easily find and retrieve video and picture from internet (f.i.: using song author and title obtained from the archive), then the user has to confirm the content.

What happen in TV if there is no video?

While audio is always guaranteed by the radio playout, it might happen that the video is missing or even does not exist.

Don’t worry, this kind of exception are foreseen by the system and can be managed according to your needs. These behaviors can be customized according to guidelines and instructions defined by the station manager during system setup.

For instance, in case of missing video the system can be configured to automatically show alternative content on TV/video:

- slide show of selected pictures can be automatically created for each single song.
- cameras shot of the Radio studio/stage or panoramic views
- Animations and graphics
- feeds from external sources

Customer benefits

What else I have to do for TV content?

One-time definition of the channel branding guidelines which are the rules to be followed in the design and creation of any graphics that will be shown on TV (colors, font, style, etc.).
The channel branding defines the look of the channel and distinguish the corporate/station image.

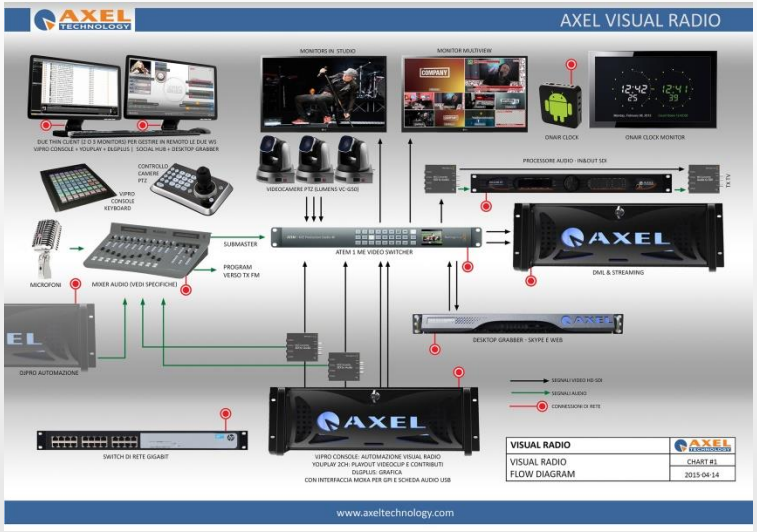
It is crucial to match these rules in any superimposed graphic object:

Station logo	**Tickers or crawl**
Programs logo	**Animations**
Banners	**Clocks**
Pop-up	**Jingles**

How is the entire workflow and synchronization possible?

VJPRO CONSOLE is the engine of the solution that makes VISUAL RADIO possible and keep it running on air 24/7, with or without operators.

Customer benefits



Can I keep the products in use in my Radio?

Yes, the VJPRO CONSOLE can be integrated with the majority of the products available on the market, new and legacy.

Radio Automation software
Mixing consoles
Video switcher
Cameras

Axel Technology is able to offer complete VISUAL RADIO solutions and also integrate products already available at customer premises.

Some analysis might be required to check brand, model and features of the products provided by the customer, in order to integrate the system workflow.

Customization are also available to match special requirements.

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VISUAL RADIO SOLUTION MAIN FEATURES

RADIO & TV on air simultaneously with highly accurate and automated integration/workflow.

Production of Radio and TV channel with the same staff.
No need to add skilled operators and video engineers.

Impressive graphics: Multi-layered CG with animations, tickers, crawls, weather and automatic titling

Social Network integration: keep in touch with audience and display content from Facebook, WhatsApp, SMS, RSSs, Twitter, WeChat, RSS feeds, Watch Folder, etc.

Easy to use: the system can operate automatically or manually and provide a smart interface that allows the presenter to easily control audio, video, logo and graphics, cameras, etc.

Cameras Intelligent switching: the switch can be manual or automatic according to many criteria and combinations of status (f.ex.: controlled from the fader status or microphones level on the radio mixer, timer, etc.).

Auxiliary sources form WEB and Desktop: broadcast external sources and feeds, such as incoming video calls from Skype, video from YouTube, content from windows desktop (Browser, PDF, XLS, DOC, images, streams, etc.).

The radio and TV integration/synch

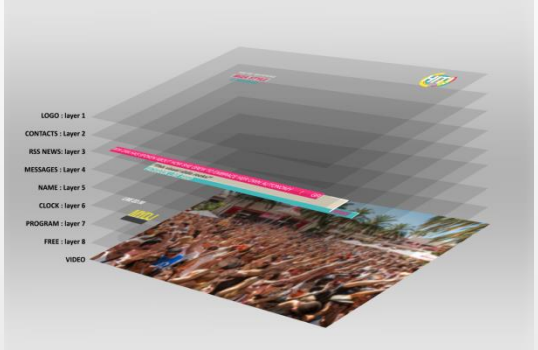
VJPro console

The Visual Radio Solution is the integration between Radio and TV that allows Radio to be seen on TV.

The radio keeps running as normally does, and the integration takes care to synch the TV and Radio stream.

The engine of this integration is the
VJPro Console

The radio and TV integration/synch



The engine of this integration is the VJPRO CONSOLE.

The integration is seamlessly performed by VJPRO that manages the workflow: is connected to all the equipment involved, receives the triggers and accordingly controls the video players, cameras switching and graphics.

VJPRO is informed about any audio played by radio automation (song, jingle, ads, news, recorder program, etc.) or live programs (talk shows, news, feeds, etc.), or action on the audio mixer (fader, GPI, etc.) that trigger the related video content and graphics.

VJPRO perfectly adapts to different operative conditions: automatic or manual, with or without operator, with scheduled program and live shows.

The behavior of the system in any condition can be defined in the settings panel by the Station manager or system administrator, who delineate the style of the channels.

The radio and TV integration/synch

VJPro console – Main principles

The radio playlist is also the driver of the TV stream and content.

TV program simply follows the Radio program.
Any audio content will have its related video content as defined by the Station Manager.
If there is no video then the VJPRO can air alternative sources/content like cameras, slideshow of images, feeds, graphics, etc.

VJPro console – Main Feature

Radio Automation integration:
Native integration with DJPRO Radio automation software
Custom modules to integrate third party radio automations (RCS, Netia, …)

Radio Console integration:
Native integration with OXYGEN 3000 digital radio console
Custom modules to integrate third party mixing console (Studer, Axia, Lawo, DHD, Wheatstone, …)
GPIO management

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Video Playout and Capture:
2 channels playout with video mixing/cross fade/effects.
Perfect Audio/Video synch.
1 channel recording.

Graphics engine:
Multi-layer CG for graphic generation with Fill and Key.
Automatic titling (song author and title)
Animations, logo, Ticker, Clock, etc.
RSS feeds, Weather information, News, etc.
Social Network content integration (using “Social Hub” software from Axel Technology)
Free CG composer software for graphic layout creation

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VJPro console – Main Feature

User Interface:

Smart GUI for manual control of graphics, layouts, video switcher, cameras, recorder, studio switch.
Hardware Instant keyboard with 64 hotkeys

Video Switcher control:

Native integration with Atem, VMIX, Tricaster, etc.
Connection: SDI/NDI/Stream (according to video switcher features)
TCP/IP and serial connection

Cameras integration:

Camera control (Sony/Visca/Panasonic protocols)
Intelligent switch for automatic camera switch (multiple configurations and rules)

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VJPro console – Technical Info

Automation file exchange
XML
TXT/ASCII
SQL
Windows forms label

Automation Commands
GPI
TCP/IP

Audio signals:
Analog balanced/unbalenced
Digital AES/EBU
AoIP (Dante, AS67, Livewire)

Video signals I/O:
SDI
NDI
IP stream

Video Resolution:
SD/HD/4K
others

Video File Format:
Supports almost any format available on the market

Graphic format
PNG/TGA/BMP/TIFF/JPG/GIF/FLASH

VJPRO is sold as “turnkey unit” called VJPRO COMPACT.

VJPRO COMPACT includes:
- PC (CPU i7) rackmount 4RU 19”
- Blackmagic broadcast video board with 4/8 SDI I/O, SD/HD/4K
- Instant keyboard 64 Hotkeys
- Internal storage 6+6TB in mirror configuration

The radio and TV integration/synch

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VJPro console – Technical Info

Radio and TV (audio/video) contents:

Radio	TV	Graphics
Song Jingles Speech and live talk shows Advertising News Recorded programs Feeds and sources	Video clip. Pictures slide show. Cameras. Feeds.	Station logo. Program logo. Song author and title. Lower thirds. Ticker. Animations. Clock.

System componend and equipment

RADIO equipment	Integration	TV equipment
Radio Automation and playout Mixing Console Microphones Player CD, SSD, MP3 Tuner Speakers	VJPRO CONSOLE	Video Mixer (HS/SW) Cameras Studio Lights Monitors Studio decorations

Customers

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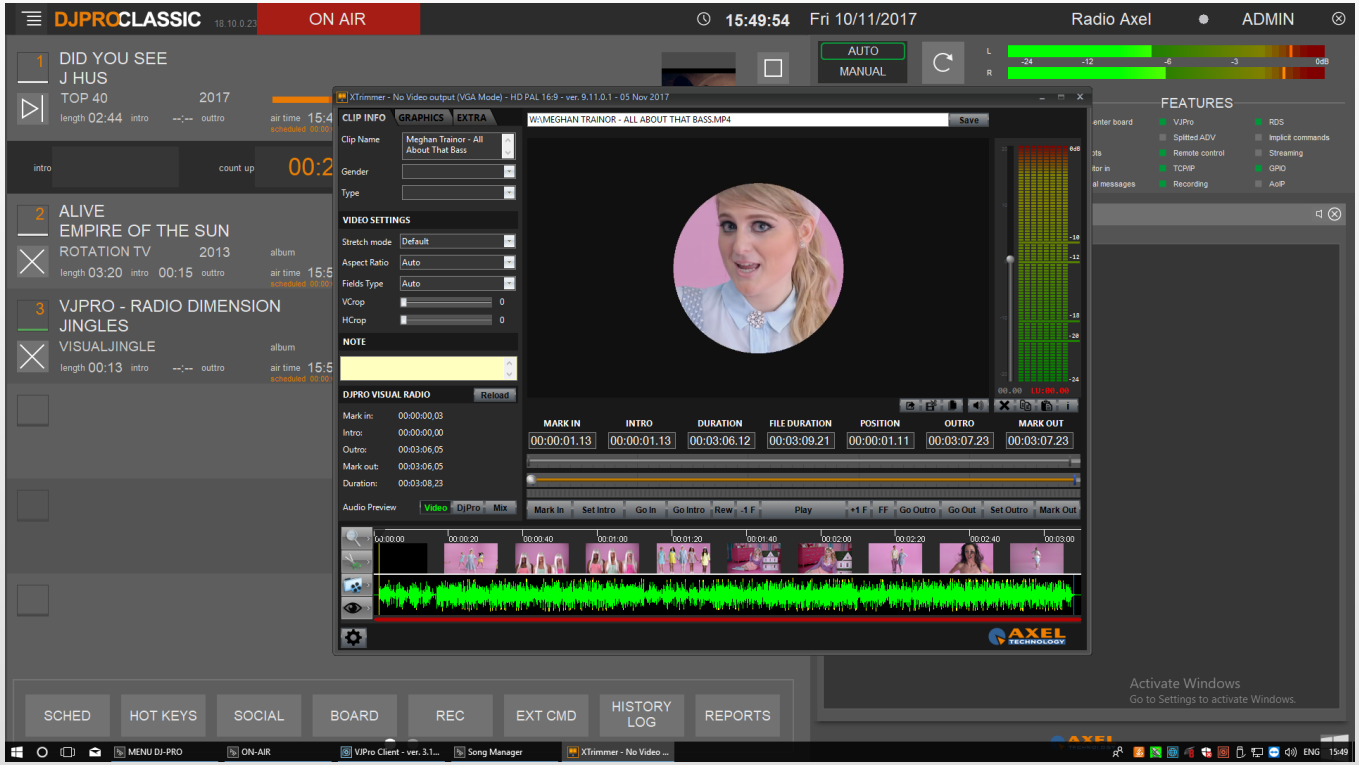
Xtrimmer and VJPro Console